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PAR 204-A

PROJECT TERMINATION REPORT
Contact Chip Printer

19 January 1965

Prepared by:

[redacted]

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Approved by:

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PROJECT TERMINATION REPORT

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SUBJECT: Contact Chip Printer

TASK/PROBLEM

1. Develop and fabricate a contact printer to expose 4 x 5 inch film chip prints with minimum loss of information content from selected areas of high-quality roll negatives (100 to 200 lines/mm resolution). Each chip will have a two-line title across one end: the first line human readable, and the second to repeat the first in machine-readable characters.

DISCUSSION

2. As a result of the conferences on Contract [redacted] held at the customer's plant in June and July 63, a need was recognized for new apparatus to provide high-quality prints from selected small areas of roll negatives. Two methods were suggested to achieve the desired high-quality selected area duplication and verbal authorization was given by the customer in September 1963 for minor project effort for "Preliminary engineering to establish concept and a design specification" for each method. PAR 204 was established for "HQ Contact Printer for selected areas." A companion project, PAR 205, was established for "Precision Enlarger, 4X". 25X1

3. A variety of contact printing methods were considered including air bag pressure, air bag pressure with a squeegee roller, vacuum frame, etc. The success of the drum-type printer led us to consider various stationary arch arrangements as a preferable system. Design studies were made and a breadboard model of one system fabricated. This model was nearly ready for tests 1 February 1964.

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4. During the 3, 4 February 1964 conference on [redacted] projects, the contractor was requested to revise the aims of the project to provide 4 x 5 inch "chip" prints with a human/machine readable title block, and the ability to orient the chip format in any direction relative to the roll negative length. It was necessary to make a number of design studies on the arrangement of mechanisms for negative handling, light source (exposure) adjustment, negative densitometry, film cleaning, title printing, etc., before we could propose to accomplish the required task. In late April 1964, a new proposal was submitted on the project. 25X1

5. Work was stopped on the project with submission of the new proposal. We were notified in early August of termination of the project.

CONCLUSION

6. In addition to the two proposals prepared on the project, we have provided:

a. A breadboard model of a stationary arch printer which has not been completely tested, and

b. A portion of the preliminary design study of the negative transport system now being fabricated for the breadboard enlarger system on PAR 202, Briefing Print Enlarger and PAR 224, 3X - 15X Fluid Gate Enlarger.

RECOMMENDATIONS

7. The breadboard model of the stationary arch printer should be tested more completely, possibly as a contact print counterpart to the 10-20-40X Enlarger.

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